



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/347,374	07/06/1999	HIEP PHAM	WIDCC006/00U	3773

7590

01/14/2003

PATENT GROUP  
COOLEY GODWARD LLP  
FIVE PALO ALTO SQUARE  
3000 EL CAMINO REAL  
PALO ALTO, CA 943062155

EXAMINER

VINCENT, DAVID ROBERT

ART UNIT

PAPER NUMBER

2661

DATE MAILED: 01/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/347,374

Applicant(s)

PHAM ET AL.

Examiner

David R Vincent

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2-6.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

Art Unit: 2661

***Specification***

1. The disclosure is objected to because of the following informalities: The copending applications listed on e.g., page 1 and 6, do not have their serial/patent numbers with them.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Cheung et al. (EP 0 695 059 A1).

As shown in Figs. 1-5, Cheung discloses the same data communications system (Fig. 1), a first network (e.g., 10, Fig. 1 or 60, Fig. 2) with nodes (A/E, Figs. 1 or 2), including an address (can be IP address of access point (AP) AP1 see respective disclosure), a second network 40, Fig. 1; 70, Fig. 2) with nodes (D, or B, Fig. 2) and an address (can be IP address of access point (AP) AP1 see respective disclosure), means for forwarding (the stations them selves, the APs, the LAN 50, etc.), from first network

Art Unit: 2661

to second (broadcasting, multicasting, roaming, Figs. 4-5), internetworking node (router, bridge, gateway, or access point, col. 3, lines 30-40; col. 6, lines 29-45; col. 7, lines 32-37; col. 8, lines 12-46, col. 9, lines 42-47; col. 13, line 13-col. 14, line 10), as specified in claims 1-8.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by examiner's official notice.

The examiner takes official notice that the following is merely one well known method for roaming. The inherent features of these protocols reads on all the limitations in claims 1-8. Using e.g., a Home Location Register (HLR) and Visiting Location Registers (VLRs) a roaming MT can be located. An HLR stores data for each MT, including the location of the MT, which comprises a direct or indirect Signaling System 7 (SS7) address station (signaling point code) to the VLR (or VLR/MSC) where the MT last provided a registration. The HLR is considered to be the location register to which a MT user identity is assigned for record purposes such as mobile user information (e.g., directory number, profile information, current location, validation period).

VLRs include a listing of MT ID numbers (MIN) currently registered within the service area of the associated Mobile Switching Center (MSC). When a MT moves from the home VLR its location is registered at the VLR of the visited network, e.g., the visiting PCS network (PCN). The new VLR then informs the MT's HLR of its current location and the home VLR cancels the MT's registration. The VLR tables enable mapping of the MIN of an MT to the address of the HLR with which the MT is associated when the MT registers with the VLR.

IS-41 can be considered to be the mobile communications protocol while SS7 is considered to be the PSTN signaling

Art Unit: 2661

protocol. IS-41 (Rev C 2/96) is implemented in the Mobile Application Part (**MAP**). Operations, Maintenance, and Administration Part (**OAMP**) and MAP are Transaction Capabilities Application Part (**TCAP**) applications. The TCAP messages can be delivered through the PCN SS7 signaling links. An SS7 Service Switching Point (**SSP**) is a telephone switch inter-connected by SS7 links. The SSPs perform call processing on calls that originate, tandem, or terminate at that node. An SSP in a PCN can be the MSC. A Signaling Transfer Point (**STP**) provides packet switching of IS-41 message based signaling protocols within the SS7 network. The Service Control Point (**SCP**) contains databases for providing enhanced services and accepts queries from an SSP. An SCP may contain an HLR or a VLR. Therefore by using IS-41 and SS7, mobiles can be contacted easily while roaming.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David R Vincent whose telephone number is 703 305 4957. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on 703 305 4703. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9314 for regular communications and 703 872 9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 306 0377.

  
**DAVID VINCENT**  
**PRIMARY EXAMINER**